

AMENDMENT

IN THE CLAIMS

Please amend the claims as follows:

1-80. (canceled)

81. (currently amended) An apparatus for delivering voltage pulses to tissue so as to establish an electric field sufficient to assist the introduction of a therapeutic agent into a cell of a tissue, wherein the apparatus comprises:

- a) a support member having disposed thereon ~~(one)~~ or more opposing pairs of electrodes arranged relative to one another to form an electrode array; and
- b) a power supply in electrical communication with the pair(s) of electrodes disposed in the support member, wherein the power supply provides voltage pulses to at least a pair of the electrodes to effect electroporation.

82. (original) The apparatus according to claim 81, wherein said apparatus is configured to be hand-held.

83. (currently amended) The apparatus according to claim 81, wherein said apparatus is further configured to include ~~an electrically conductive~~ cover.

84. (original) The apparatus according to claim 81, wherein said electrodes are attached to said support member and are additionally, operatively connected to a pulse generator.

85. (original) The apparatus according to claim 84, wherein said pulse generator is not contained within said support member.

86. (original) The apparatus according to claim 81, wherein said electrodes are detachable from said support member.

87. (original) The apparatus according to claim 81, wherein said apparatus is configured to

USSN: 09/966,390
Page 3 of 9

GTI 1400 CON 1

comprise a reservoir for a therapeutic agent.

88. (original) The apparatus according to claim 87, wherein said reservoir comprises a porous reservoir.

89. (original) The apparatus according to claim 81, wherein said electrode comprises a porous reservoir for said therapeutic agent.

90. (canceled)

91. (original) The apparatus according to claim 86, further comprising a detachable electrode mounting bracket.

92. (original) The apparatus according to claim 91, wherein said detachable electrode mounting bracket has said electrode detachably adhered thereto.

93. (original) The apparatus according to claim 92, wherein said electrode mounting bracket is square, round, contoured, or tube shaped.

94. (original) The apparatus according to claim 93, wherein said tube shaped electrode mounting bracket has a central core comprising an axle, about which said electrode mounting bracket is rotatable.

95. (original) The apparatus according to claim 90, wherein said electrode comprises an adhesive layer for attachment of said electrode to said electrode mounting bracket.

96. (original) The apparatus according to claim 81, wherein said electrode is disposable.

USSN: 09/966,390
Page 4 of 9

GTI 1400 CON 1

97. (original) The apparatus according to claim 81, wherein said electrodes are a meander type electrode or a micropatch electrode.

98. (original) The apparatus according to claim 97, wherein said meander type electrode comprise an interweaving array of electrically conductive electrode fingers coated on a thin film.

99. (currently amended) The apparatus according to claim 81 ~~and 98~~, wherein said electrodes have a width of about ≥ 1 mm.

100. (currently amended) The apparatus according to claim 81 ~~and 99~~, wherein said electrodes are separated by a gap of about 0.2 mm.

101. (original) The apparatus according to claim 81, wherein said pulse generator is powered by a battery, optionally contained within said support member.

102. (original) The apparatus according to claim 81, wherein a portion of said support member is electrically conductive.

103. (original) The apparatus according to claim 102, wherein said electrically conductive portion of said support member functions as a return conductor for said electrode when a conductive material is disposed between said electrode and said electrically conductive portion of said support member.

104-105. (canceled)

106. (original) The apparatus according to claim 81, further comprising a vibrating unit.

107. (original) The apparatus according to claim 81, further comprising a phonophoresis unit.

USSN: 09/966,390
Page 5 of 9

GTI 1400 CON 1

108. (original) The apparatus according to claim 81, further comprising a pressure sensor unit.

109. (original) The apparatus according to claim 81, further comprising a unit to measure and record the skin resistance of the subject.

110. (canceled)

111. (original) The apparatus according to claim 81, further comprising a means for applying iontophoresis.

112. (original) The apparatus according to claim 111, wherein said means further comprises a switching unit to allow for switching between electroporation and iontophoresis.

113. (original) The apparatus according to claim 106, wherein said vibrating unit applies ultra sound.

114. (original) The apparatus according to claim 81, wherein said pulses are electrical impulses.

115. (original) The apparatus according to claim 114, wherein said pulses are selected from the group consisting of unipolar, bipolar, exponential and square wave forms.

116. (original) The apparatus according to claim 97, wherein said meander electrode is insulated or porous.

117. (original) The apparatus according to claim 81, wherein said electrodes are selected

USSN: 09/966,390
Page 6 of 9

GTI 1400 CON 1

from the group consisting of wire, porous, and meander electrodes.